(12)

Original/Duplicate/Triplicate
CONTRACT CERTIFICATE
(For Other Works)

No 2nd & part

Date 2015

AEE / YNK SUB. DN
SBR No: 22/15-16
Date: 30/4/15

Division: BBMP / YNK YNK-DBR No. 23 Sub-Division: Yelahanka Sub – Division.
Date 30.04.15

Bill Received No. Divisional Cash Book Voucher No. Dated

Sub Divisional Work Code: 002-14-000046.

Schedule Docket No. Head of Account: Est.Cost: 45.00 Lakhs B.R.No. :

Name of Work : Drilling of Borewell and providing pipe line at Harohalli, Nagenahlli and Kenchenahalli in ward No:02 of Yelahanka Sub Division

Name of Contractor and Full Address: **Technical Manager (West) KRIDL, BBMP, Bangalore.**

Reference to Agreement No. EE/YNK.D/ W.O/443 /2014-15. Date: 6-2-2015

Certified that the measurements were taken by me on and recorded of Pages to of measurement Book No. 1003 and that the work is satisfactorily executed. 30/04/15

Officer-in-charge of work

Assistant Executive Engineer
Byataravanapura Sub-division
KRIDL, BBMP, Bangalore

Certified that the measurement were taken by me on 30/4 and found correct. The work is satisfactorily executed. The quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub-Division Officer

Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ypk. Zn)
Yelahanka, Bangalore

Bill Memorandum of Payment

1) Total value of work done or supplies made as per account within — 1st & part — Rs 413754:00
2) Deduct amount to be held in reserve being percent Rs — 1st & part —
3) " Balance
4) Deduct Payment:
   a) Amount of previous payment as in the Office Cash Book Voucher No Dated SD. No Amount adjusted towards cash advance
   recovery of
   b) Payments Now made } cost store or other material supplied. / recovery of amount creditable to this/other work / Amount paid on this bill Cheque / Cash.
5) Balance being unpaid value of work done held in reserve.
6) Deduct cash advance made on the Office cash Book Voucher No dated less adjustments.
7) Net amount due to or from Contractor unadjustments items.
8) Advance to Contractor for materials brought to site (as detailed) within.
9) Value of Government materials supplied.

FSD = Rs	20687:00
VAT = Rs	16550:00
SCST = Rs	—
IT = Rs	8275:00
LC = Rs	4138:00
CBF = Rs	414:00
Royalty = Rs	—
T.D. = Rs	50064:00
Total amount adjusted = Rs	363690:00

Contractor's Signature

Received Rs (in words)
by cash and by adjustment of Payment as per memorandum
(in final settlement of all demands)

(For use in the Office)

Assistant Executive Engineer
Byataravanapura Sub-division
KRIDL, BBMP, Bangalore

Witness
1.
2.

Assistant Executive Engineer
Byataravanapura Sub-division
KRIDL, BBMP, Bangalore
Signature of Contractor

Dated
Paid by me by Cheque No. Dated
Cash Rs
Dated
Initials of Officer making payment

Stamp

Audited & Admitted for Rs 413754:00

Executive Engineer

363690:00
50064:00

Assistant Executive Engineer
Yelahanka Division
BBMP

sl no	Description of work	
1	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS or P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction	Each
2	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,)	Rmtr
	0 to 50 m	
	50 to 100 m	
	100 to 150 m	
	150 to 200 m	
	200 to 250 m	
	250 to 300m	
3	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other and with a plastic protection end	Rmtr
4	Providing 250mm dia PVC Pipe 6kg/cm as per specification and direction of the Engineer in Charge of the work	Rmtr
5	Providing and fixing 175mm Collar	No
6	Providing and fixing 175mm Borewell cap	
7	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by meaans of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete The pump and motor shall form an integral unit with all the required fittings	
	12.50 HP 20 stage	No
8	Supplying of ISI marked galvanized mild steel tube (continously welded electric resistance welded (ERW) high frequency, induction welded (HFIW) Hot finished welded type of nominal bore given below screwed at both ends as per IS 554/1986 with latest amendments, pipes threaftes at one end and the other end protected asper specification in random lengths of 4 to 7 mtrs Confirming to IS 1239 part I/1990 with amendament 1-5 and with all its latest amendements if any. The pipes supplied should be with BIS mark No 3/08-09 2406/15.10.2008.	Rmtr
9	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS 8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts. P. No. 46/ I No. 30-B 4.0 Sqm mm of 36 strands 0.3mm dia Group - A KPWD Electrical SR 2007-08 3/2008-09 4538/19.01.2009 (1x3x4.00 Sqmm PVC cable	Mtr
10	Erection of pumpset including aligning and balancing with all necessary erection materials and labour including supply and erection of one pair supporting clamps, one borewell cap. Cable clips with bolts, nuts, valves guages etc., involoved in the job (Necessary GI pipe and specials with be supplied by the board at the site free of cost)	No
11	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc.,	Each
12	Supplying of LTUG cable having aluminium condutor PVC insulated shethed, galvnised steel, wire / steel tap armoured cable with PVC outer sheathing 1.1 KV class	Mtr
	For existing borewell	
13	Labour charges for laying of 1.1 K.V class UG cable (PWD Electrical SR-1999-2000	Mtr
14	Digging or trenching of 0.6m deep x 0.5 mtr wide refilling the trench to the required ground level and consolidating etc., complete (as per Civil SR KSRB	Mtr
15	Supplying and fixing of Class A (meaium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class	Mtr
16	Supplying and fixing L.T. cast Iron pot head suitable for 1.1 KV class UG cable filled with necessary bituumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc.	No
17	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cutouts and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal propotion of solt and charcoal 150 mm alround the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 throught holes of 122 mm dia, (PWD Electrical SR-1999-2000	No
18	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete... P No. 30/I No 3b	No

Previous Measurment		Present Measurement			Total up-to date		Remarks
Qty	cost	Qty	Rate	Cost	Qty	cost	
5.00	9500.0	2.00	1900.00	3800.00	7.00	13300.00	
	0.0			0.00	0.00	0.00	
250.00	71750.0	100.00	287.00	28700.00	350.00	100450.00	
250.00	94750.0	100.00	379.00	37900.00	350.00	132650.00	
250.00	105500.0	100.00	422.00	42200.00	350.00	147700.00	
250.00	116000.0	100.00	464.00	46400.00	350.00	162400.00	
250.00	128250.0	100.00	513.00	51300.00	350.00	179550.00	
~~100.00~~ 140	~~55000.0~~ 77000	40.00	550.00	22000.00	140.00	77000.00	
~~170.00~~ 175	~~221850.0~~ 228375	75.00 70	1305.00	97875.00	245.00	~~319725.00~~ 326250	
30.00	20490.0	12.00	683.00	8196.00	42.00	28686.00	
~~28~~ 23	~~4200.0~~ 2450		150.00	0.00	28.00	4200.00	
~~7~~ 5	~~700.0~~ 500		100.00	0.00	7.00	~~700.00~~ 500	
	0.0			0.00	0.00	0.00	
7	308000.0		44000.00	0.00	7.00	308000.00	
~~1880.00~~ 1875	~~611000.0~~ 609375		325.00	0.00	1880.00	611000.00 609375	
~~3760.00~~ 3750	~~567760.0~~ 566250		151.00	0.00	3760.00	~~567760.00~~ 566250	
7.00	11970.0		1710.00	0.00	7.00	11970.00	
~~7.00~~ 5	~~1995.0~~ 1425		285.00	0.00	7.00	~~1995.00~~ 1425	
175.00	26250.0		150.00	0.00	175.00	26250.00	
200.00	30000.0		150.00	0.00	200.00	30000.00	
175.00	1400.0		8.00	0.00	175.00	1400.00	
112.00	6720.0		60.00	0.00	112.00	6720.00	
28.00	6720.0		240.00	0.00	28.00	6720.00	
~~7.00~~ 5	~~1820.0~~ 1300		260.00	0.00	7.00	~~1820.00~~ 1300	
~~7.00~~ 5	~~13650.0~~ 9750		1950.00	0.00	7.00	~~13650.00~~ 9750	
~~28.00~~ 20	~~2800.0~~ 2000		100.00	0.00	28.00	~~2800.00~~ 2000	

sl no	sl no	Description of work	
1	19	KSRB 13-7.1-4: Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications NO KBS 13.2.16 / 13.13	No
	20	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. P. No. 84 / I. No. 13.81.3	Nos
	21	Supplying and fixing 50mm dia GI X nipple with ISI mark with all lead and lift loading unloading and labour charges etc coomplete	No
2	22	Supplying shunt capaitors conforming to IS 2834, 3phase 400/440 volts grade for power factor improvement of rotating machinery, Capacitor in KVAR rating Nos. 2KVAR capacity with all lead and lift =, loading, unloading and labour charges etc complete as per specifications	No
	23	Supplying and fixing miniature circuit breakers/solaters on existing MCB distribution boards using necessary fixing materiasl wiring complete as requireds 5 to 30 amps triple pole with all lead and lift, loading, unloading and labour charges etc complete as per specifications	No
	24	Fabrication supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sqcm	Sq Cm
3	25	Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided the combined energy meter cum- control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset.	No
4			
5	26	KSRB 13.6.3-6 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification	Each
6			
7	27	Earth work excavation for pipeline trenches including depositing on bank upto a lead of 50 mtrs. Including shoring and strutting danger lighting and using sight rails and boning rods at every 100 mtrs wherever necessary as directed in the following strata manual means in hard soil	Cum
	28	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc.,	Rmtr
		75 mm dia 6 KSC PVC pipe	
		63mm dia 6KSC	
	29	Refilling the basement and pipe line trenches with selected avaiable earth from trench excavation including watering consolidation in layers of 15 cm thick including disposing of the surplus earth with a lead of 200 meters	Cum
	30	KSRB 13.3.2: Providing and fixing in trenches galvanised / mild steel tubes (medium grade) 20mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour, charges HOM of equipments complete as per specifications. Specification	Rmtr
	31	Providing and constructing platform in CC 1:2:4 proportion using hard granite or basalt or trap jelly of 20mm down size for india MARK -III (VLOM) hand pump as per approved drawing enclosed to the SR According to IS 13056: 1991 (UNICEF Standards) including machine mixing, laying, tamping curing and smooth finishing to exposed faces in C.M 1:3 with necessary moulds including earthwork excavation with all leads for materials etc complete.	Each
	32	KSRB 13-4.1 Making connection of G.I. distribution branch with G.I. main of 25 to 40mm. nominal bore, including bore, including cutting and threading the pipes, providing and fixing Tee, nuts, labour for all item of works, testing and HOM of equipments complete as per specifications. Specification	Nos
	33	KSRB 13-1.3 : Providing and fixing to wall, ceiling and floor galvanised / mild steel tube 25mm dia nominal bore with fittings (medium grade weight 2.51 kg/mtr) B class including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications no. KBS13	Nos
	32	50mm Dia GI Coller Heavy Duty	
	33	50 mm dia GI Union	Nos
	34	50mm Dia GI Elbow	Nos
	35	160mm dia Borewell cap with clamp set H/D	Nos
	36	50mm Dia GM gate Valve IS 778/84	Nos
	37	50mm dia GM Non return valve IS:778/84	Nos
		Flange set	Nos
		Public fountain	Nos
			Set
			TOTAL

Certificates:

1 The above work is done satisfactorily and complete in all respect.
2 There is no department Material issue for the above work.
3 This works comes under BBMP Limit.

Ramaseesh AE

Previous Measurment		Present Measurement			Total up-to date		Remarks
Qty	cost	Qty	Rate	Cost	Qty	cost	
7.00 5	7945.6 5675		1135.08	0.00	7.00 5	7945.56 5675	
7.00 5	1436.4 1026		205.20	0.00	7.00 5	1436.40 1026	
28.00 20	2240.0 1600		80.00	0.00	28.00 20	2240.00 1600	
7.00 5	2450.0 1750		350.00	0.00	7.00 5	2450.00 1750	
7.00 5	7000.0 5000		1000.00	0.00	7.00 5	7000.00 5000	
529200.00 263025	174636.0 86798		0.33	0.00	529200.00 263025	174636.00 86798	
7.00	49000.0		7000.00	0.00	7.00	49000.00	
14 12	22574.2 19349		1612.44	0.00	14.00 12	22574.16 19349	
378.00 162	76356.0 32724	108.00	202.00	21816.00	486.00 162	98172.00 32724	
	0 0			0.00	0.00	0.00	
300.00	35100.0		117.00	0.00	300.00	35100.00	
1100.00 600	95800.0 52200	400.00	88.00	35200.00	1500.00	132000.00 88000	
378.00 162	21924.0 9396	108.00	58.00	6264.00	486.00 270	28188.00 15660	
35.00 25	4914.0 3510		140.40	0.00	35.00 25	4914.00 7570	
4.00	30767.0		7691.76	0.00	4.00	30767.04	
35.00	11566.8		330.48	0.00	35.00	11566.80	
150.00	47466.0		316.44	0.00	150.00	47466.00	
7 5	910.0 650		130.00	0.00	7.00 5	910.00 650	
7 5	1260.0 900		180.00	0.00	7.00 5	1260.00 900	
7 5	840.0 600		120.00	0.00	7.00 5	840.00 600	
7 5	4865.0 3475		695.00	0.00	7.00 5	4865.00 3475	
10 8	9180.0 7344		918.00	0.00	10.00 8	9180.00 7344	
26 20	22256.0 17120		856.00	0.00	26.00 20	22256.00 17120	
20 15	14200.0 10650		710.00	0.00	20.00 15	14200.00 10650	
50	250000.0		5000.00	0.00	50.00	250000.00	
	3313762.0	3157915.00		379591 (401651)		3715413	2766 94
	10% KRIDL Service Charge+ 1% labour cess			34163 (44182)		408695	304281 89040
			Total	413754 445833		4124108	

3571669.00

Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore